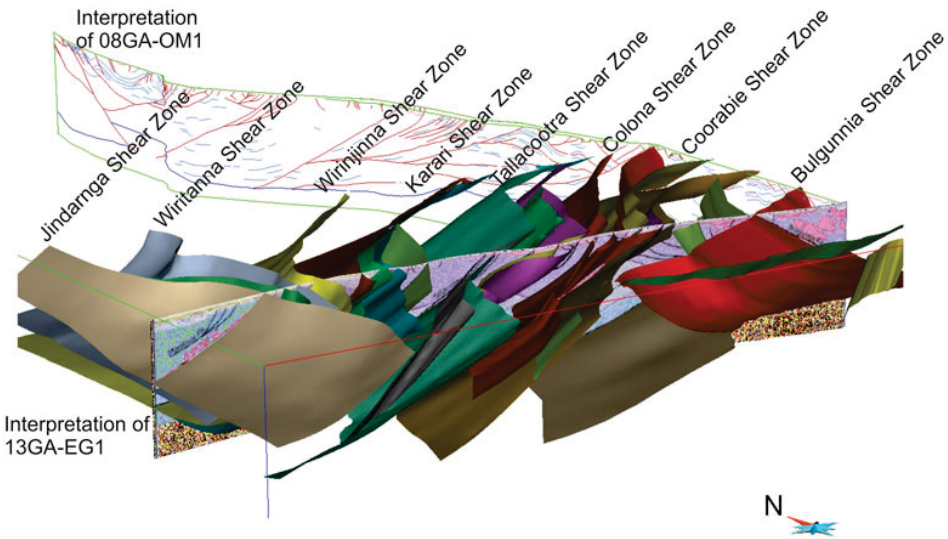
Western Gawler Craton, 2017 — 3D Geomodel Series



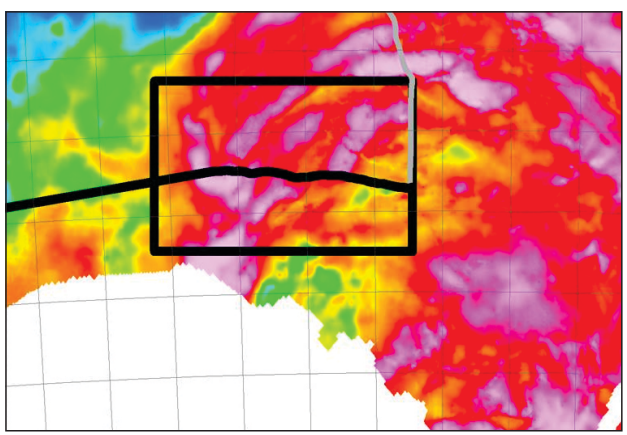
The recent acquisition and interpretation of the deep crustal seismic line 13GA-EG1 has allowed a new 3D model to be constructed for the western Gawler Craton. Interpretations used to construct this model were derived from a cross-border collaborative program between the Geological Survey of South Australia, the Geological Survey of Western Australia and Geoscience Australia, initiated by the collection of seismic lines 13GA-EG1 and 08GA-OM11. Publications by Dutch et al., 2015 and Murdie et al., 2017 discuss the data and the 3D geomodel, which can be accessed via the South Australian Department of State website (below).

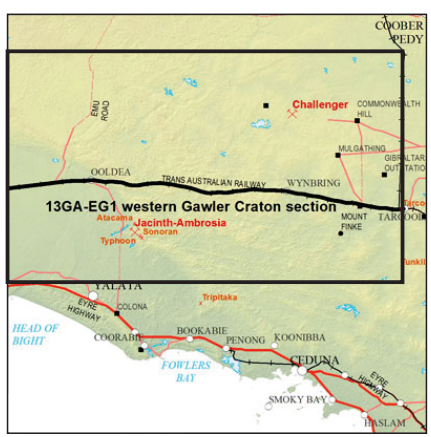
Dutch, RA, Pawley, MJ, and Wise, TW (compilers) 2015, What lies beneath the western Gawler Craton? in 13GA-EG1E Seismic and Magnetotelluric Workshop 2015: Department of State Development, South Australia, Report Book 2015/00029.

Murdie, RE, Wise, TW, Pawley, MJ and Dutch, RA 2017, Architecture of the western Gawler Craton: a new 3D visualisation: MESA Journal, v. 83, no. 2, p. 11–19.

SOUTH AUSTRALIA

GOVERNMENT OF WESTERN AUSTRALIA





3D datasets featured:

Geology

- 13GA-EG1 and 08GA-OM1 seismic interpretation
- 3D block model
- 3D fault model

Geophysics

- Gravity and magnetic grid files

Remotely sensed information

- Digital elevation model from Shuttle Radar Topography Mission (SRTM)

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Product available from: http://minerals.statedevelopment.sa.gov.au/geoscience/geoscientific_data/3d_geological_models/wgc_3d_architecture

Cost: Free